EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2	("20010050658").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/12 09:57
L2	2	("20040145603").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/12 09:53
L3	2	("20050055420").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/12 09:59
L4	10	("20040021681" "20050010860" "6313855" "6313854" "6589292"). pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/12 10:01
L5	5329	(dual near4 processors) & system	US-PGPUB; USPAT	OR	ON	2006/03/12 10:02
L6	0	L5 & (display near4 sreens)	US-PGPUB; USPAT	OR	ON	2006/03/12 10:02
L7	772	L5 & (display near4 screens)	US-PGPUB; USPAT	OR	ON	2006/03/12 10:02
L8	124	L7 & laptop	US-PGPUB; USPAT	OR	ON	2006/03/12 10:02
L9	245	L5 & (dual with (moniors screens display lcd))	US-PGPUB; USPAT	OR	ON	2006/03/12 10:02
L10	0	L9 & (touch$3 near4 sreen)	US-PGPUB; USPAT	OR	ON	2006/03/12 10:02
L11	52	L9 & (touch$3 near4 screen$1)	US-PGPUB; USPAT	OR	ON	2006/03/12 10:02
L12	0	(345/702).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/03/12 10:02
L13	1	("20040021681").PN.	US-PGPUB; USPAT	OR	OFF	2006/03/12 10:02
L14	106	(715/702).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/03/12 10:02

EAST Search History

L15	1	L5 & L14	US-PGPUB; USPAT	OR	ON	2006/03/12 10:02
L16	3041	Liao.inv.	US-PGPUB; USPAT	OR	ON	2006/03/12 10:02
L17	1	"Liao, Chin-Hua Arthur".inv.	US-PGPUB; USPAT	OR	ON	2006/03/12 10:02
L18	1	"Chin-Hua Arthur".inv.	US-PGPUB; USPAT	OR	ON	2006/03/12 10:02
L19	11	"Chin-Hua ".inv.	US-PGPUB; USPAT	OR	ON	2006/03/12 10:02
L20	0	dual near4 tought near5 screen	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/12 10:02
L21	52	dual near4 touch near5 screen	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/12 10:02
L22	37	L21 & ("dual core" "dual processor$1" processor$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/12 10:02
L23	18	L5 & L22	US-PGPUB; USPAT	OR	ON	2006/03/12 10:02
L24	6	("dual core" "dual processor$1" "processor$1") & "touch screen"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/12 10:02
L25	1180	("dual core" "dual processor$1" "processor$1")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/12 10:02
L26	19	("dual core" "dual processor$1" "processor$1") & laptop	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/12 10:33

EAST Search History

L27	0	"dual processor$1" & laptop	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/12 10:02
L28	0	"dual processor$1" & (touch nera4 screen)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/12 10:02
L29	0	"dual processor$1" & (touch near4 screen)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/12 10:02
L30	518187	dual processor$1 & (touch near4 screen)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/12 10:02
L31	26378	processor$1 & (touch near4 screen)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/12 10:02
L32	47	L21 & dual near4 screen	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/12 10:02
L33	153	L31 & dual near4 screen	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/12 10:33
L34	437	processor$1 & dual near4 screen	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/12 10:02

EAST Search History

L35	437	processors & (dual near4 screen)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/12 10:02
L36	437	processor$1 & (dual near4 screen)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/12 10:02
L37	495868	dual processor$1 & dual near4 screen	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/12 10:02
L38	437	processor$1 & (dual near4 screen)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/12 10:02
L39	437	L38 & (dual near4 screen)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/12 10:02
L40	153	L38 & (touch near4 screen)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/12 10:02
L41	9	"dual cpu" & (touch near4 screen)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/12 10:02
L42	0	("EP460676A2").PN.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/03/12 10:02
L43	1	("0460676").PN.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/03/12 10:02
L44	1	("6489895").PN.	US-PGPUB; USPAT	OR	OFF	2006/03/12 10:02

EAST Search History

L45	1	("6486895").PN.	US-PGPUB; USPAT	OR	OFF	2006/03/12 10:02
L46	0	("8&(design$3build$3creat$4develop$4)").PN.	US-PGPUB; USPAT	OR	OFF	2006/03/12 10:02
L47	1	L45 & (design$3 build$3 creat$4 develop$4)	US-PGPUB; USPAT	OR	ON	2006/03/12 10:02
L48	0	L45 & (edit$3)	US-PGPUB; USPAT	OR	ON	2006/03/12 10:02
L49	1	"20020007349"	US-PGPUB; USPAT	OR	ON	2006/03/12 10:02
L50	54	xml near4 spy	US-PGPUB; USPAT	OR	ON	2006/03/12 10:02
L51	0	"xml spy 4.4 xslt" with designer	US-PGPUB; USPAT	OR	ON	2006/03/12 10:02
L52	0	"xml spy 4.3 xslt" with designer	US-PGPUB; USPAT	OR	ON	2006/03/12 10:02
L53	1259	"xml spy"near4 xslt	US-PGPUB; USPAT	OR	ON	2006/03/12 10:02
L54	1	"xml spy" near4 xslt	US-PGPUB; USPAT	OR	ON	2006/03/12 10:02
L55	15	"xml spy" and xslt	US-PGPUB; USPAT	OR	ON	2006/03/12 10:02
L56	0	"xml spy 4.4"	US-PGPUB; USPAT	OR	ON	2006/03/12 10:02
L57	0	"xml spy" with "document editor"	US-PGPUB; USPAT	OR	ON	2006/03/12 10:02
L58	1	"xml spy" and "document editor"	US-PGPUB; USPAT	OR	ON	2006/03/12 10:02
L59	48	"xml spy"	US-PGPUB; USPAT	OR	ON	2006/03/12 10:02
L60	54	xml near4 spy	US-PGPUB; USPAT	OR	ON	2006/03/12 10:02
L61	2	(xml near4 spy) with xslt	US-PGPUB; USPAT	OR	ON	2006/03/12 10:02
L62	54	xml near3 spy	US-PGPUB; USPAT	OR	ON	2006/03/12 10:02
L63	16	L62 & (xslt (xml near4 transformation))	US-PGPUB; USPAT	OR	ON	2006/03/12 10:02
L64	897	edit$4 near4 xml	US-PGPUB; USPAT	OR	ON	2006/03/12 10:02
L65	897	L64 & (edit$4 nera4 xsl)	US-PGPUB; USPAT	OR	ON	2006/03/12 10:02
L66	897	L64 & (edit$4 near$4 xsl)	US-PGPUB; USPAT	OR	ON	2006/03/12 10:02

EAST Search History

L67	32	L66 & "xml spy"	US-PGPUB; USPAT	OR	ON	2006/03/12 10:02
L68	10	altova with (xml near$4 editor)	US-PGPUB; USPAT	OR	ON	2006/03/12 10:02
L69	0	altova.as.	US-PGPUB; USPAT	OR	ON	2006/03/12 10:02
L70	15	altova	US-PGPUB; USPAT	OR	ON	2006/03/12 10:02
L71	15	(xml with editor) with (xslt)	US-PGPUB; USPAT	OR	ON	2006/03/12 10:02
L72	2	("6938205").pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/12 10:32
L73	971	(715/517-521).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/12 10:33
L74	819	(715/517,521).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/12 10:33
L75	153	33 & dual near4 screen	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/12 10:33
L76	1	"175" & ("dual core" "dual processor$1" "processor$1") & laptop	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/12 10:33
L77	245	L5 & (dual with (moniors screens display lcd))	US-PGPUB; USPAT	OR	ON	2006/03/12 10:34
L78	5329	(dual near4 processors) & system	US-PGPUB; USPAT	OR	ON	2006/03/12 10:35
L79	0	L5 & (display near4 sreens)	US-PGPUB; USPAT	OR	ON	2006/03/12 10:35
L80	772	L5 & (display near4 screens)	US-PGPUB; USPAT	OR	ON	2006/03/12 10:35

EAST Search History

L81	124	L7 & laptop	US-PGPUB; USPAT	OR	ON	2006/03/12 10:35
L82	245	L5 & (dual with (moniors screens display lcd))	US-PGPUB; USPAT	OR	ON	2006/03/12 10:35
L83	0	L9 & (touch$3 near4 sreen)	US-PGPUB; USPAT	OR	ON	2006/03/12 10:35
L84	52	L9 & (touch$3 near4 screen$1)	US-PGPUB; USPAT	OR	ON	2006/03/12 10:35
L85	0	(345/702).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/03/12 10:35
L86	1	("20040021681").PN.	US-PGPUB; USPAT	OR	OFF	2006/03/12 10:35
L87	106	(715/702).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/03/12 10:35
L88	1	L5 & L14	US-PGPUB; USPAT	OR	ON	2006/03/12 10:35
L89	3041	Liao.inv.	US-PGPUB; USPAT	OR	ON	2006/03/12 10:35
L90	1	"Liao, Chin-Hua Arthur".inv.	US-PGPUB; USPAT	OR	ON	2006/03/12 10:35
L91	1	"Chin-Hua Arthur".inv.	US-PGPUB; USPAT	OR	ON	2006/03/12 10:35
L92	11	"Chin-Hua ".inv.	US-PGPUB; USPAT	OR	ON	2006/03/12 10:35
L93	0	dual near4 tought near5 screen	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/12 10:35
L94	52	dual near4 touch near5 screen	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/12 10:35
L95	37	L21 & ("dual core" "dual processor$1" processor$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/12 10:35
L96	18	L5 & L22	US-PGPUB; USPAT	OR	ON	2006/03/12 10:35

EAST Search History

L97	6	("dual core" "dual processor$1" "processor$1") & "touch screen"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/12 10:35
L98	1180	("dual core" "dual processor$1" "processor$1")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/12 10:35
L99	19	("dual core" "dual processor$1" "processor$1") & laptop	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/12 10:35
L100	0	"dual processor$1" & laptop	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/12 10:35
L101	0	"dual processor$1" & (touch nera4 screen)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/12 10:35
L102	0	"dual processor$1" & (touch near4 screen)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/12 10:35
L103	518187	dual processor$1 & (touch near4 screen)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/12 10:35
L104	26378	processor$1 & (touch near4 screen)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/12 10:35

EAST Search History

L105	47	L21 & dual near4 screen	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/12 10:35
L106	153	L31 & dual near4 screen	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/12 10:35
L107	437	processor$1 & dual near4 screen	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/12 10:35
L108	437	processors & (dual near4 screen)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/12 10:35
L109	437	processor$1 & (dual near4 screen)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/12 10:35
L110	495868	dual processor$1 & dual near4 screen	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/12 10:35
L111	437	processor$1 & (dual near4 screen)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/12 10:35
L112	437	L38 & (dual near4 screen)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/12 10:35

EAST Search History

L113	153	L38 & (touch near4 screen)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/12 10:35
L114	9	"dual cpu" & (touch near4 screen)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/12 10:35
L115	0	("EP460676A2").PN.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/03/12 10:35
L116	1	("0460676").PN.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/03/12 10:35
L117	1	("6489895").PN.	US-PGPUB; USPAT	OR	OFF	2006/03/12 10:35
L118	1	("6486895").PN.	US-PGPUB; USPAT	OR	OFF	2006/03/12 10:35
L119	0	("8&(design$3build$3creat$4develop$4)").PN.	US-PGPUB; USPAT	OR	OFF	2006/03/12 10:35
L120	1	L45 & (design$3 build$3 creat$4 develop$4)	US-PGPUB; USPAT	OR	ON	2006/03/12 10:35
L121	0	L45 & (edit$3)	US-PGPUB; USPAT	OR	ON	2006/03/12 10:35
L122	1	"20020007349"	US-PGPUB; USPAT	OR	ON	2006/03/12 10:35
L123	54	xml near4 spy	US-PGPUB; USPAT	OR	ON	2006/03/12 10:35
L124	0	"xml spy 4.4 xslt" with designer	US-PGPUB; USPAT	OR	ON	2006/03/12 10:35
L125	0	"xml spy 4.3 xslt" with designer	US-PGPUB; USPAT	OR	ON	2006/03/12 10:35
L126	1259	"xml spy"near4 xslt	US-PGPUB; USPAT	OR	ON	2006/03/12 10:35
L127	1	"xml spy" near4 xslt	US-PGPUB; USPAT	OR	ON	2006/03/12 10:35
L128	15	"xml spy" and xslt	US-PGPUB; USPAT	OR	ON	2006/03/12 10:35
L129	0	"xml spy 4.4"	US-PGPUB; USPAT	OR	ON	2006/03/12 10:35
L130	0	"xml spy" with "document editor"	US-PGPUB; USPAT	OR	ON	2006/03/12 10:35

EAST Search History

L131	1	"xml spy" and "document editor"	US-PGPUB; USPAT	OR	ON	2006/03/12 10:35
L132	48	"xml spy"	US-PGPUB; USPAT	OR	ON	2006/03/12 10:35
L133	54	xml near4 spy	US-PGPUB; USPAT	OR	ON	2006/03/12 10:35
L134	2	(xml near4 spy) with xslt	US-PGPUB; USPAT	OR	ON	2006/03/12 10:35
L135	54	xml near3 spy	US-PGPUB; USPAT	OR	ON	2006/03/12 10:35
L136	16	L62 & (xslt (xml near4 transformation))	US-PGPUB; USPAT	OR	ON	2006/03/12 10:35
L137	897	edit$4 near4 xml	US-PGPUB; USPAT	OR	ON	2006/03/12 10:35
L138	897	L64 & (edit$4 nera4 xsl)	US-PGPUB; USPAT	OR	ON	2006/03/12 10:35
L139	897	L64 & (edit$4 near$4 xsl)	US-PGPUB; USPAT	OR	ON	2006/03/12 10:35
L140	32	L66 & "xml spy"	US-PGPUB; USPAT	OR	ON	2006/03/12 10:35
L141	10	altova with (xml near$4 editor)	US-PGPUB; USPAT	OR	ON	2006/03/12 10:35
L142	0	altova.as.	US-PGPUB; USPAT	OR	ON	2006/03/12 10:35
L143	15	altova	US-PGPUB; USPAT	OR	ON	2006/03/12 10:35
L144	15	(xml with editor) with (xslt)	US-PGPUB; USPAT	OR	ON	2006/03/12 10:35
L145	971	(715/517-521).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/12 10:35
L146	0	("L145&L110").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/12 10:37
L147	42	L145 & L110	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/12 10:38

EAST Search History

L148	1	West same browser same palm	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/12 10:39

Terms used **A Web Browser for Small Terminals** Found **11** of **171,143**

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Relevance scale

1 Computer human interface: Handheld devices for applications using dynamic multimedia data
Binh Pham, On Wong
June 2004 **Proceedings of the 2nd international conference on Computer graphics and interactive techniques in Australasia and South East Asia GRAPHITE '04**
Publisher: ACM Press
Full text available: pdf(209.86 KB) Additional Information: full citation, abstract, references, citings, index terms

Growing demand for ubiquitous and pervasive computing has triggered a sharp rise in handheld device usage. At the same time, dynamic multimedia data has become accepted as core material which many important applications depend on, despite intensive costs in computation and resources. This paper investigates the suitability and constraints of using handheld devices for such applications. We firstly analyse the capabilities and limitations of current models of handheld devices and advanced feature ...

Keywords: collaborative, computer graphics, handheld devices, image processing, multimedia

2 Getting and giving information: An adaptive viewing application for the web on personal digital assistants
Kwang Bok Lee, Roger A. Grice
October 2003 **Proceedings of the 21st annual international conference on Documentation**
Publisher: ACM Press
Full text available: pdf(536.50 KB) Additional Information: full citation, abstract, references, index terms

With the proliferation of Personal Digital Assistants (PDAs), people are using such small devices to access the web; however, the web is not accommodating such access. Here, for small devices' users, we present an efficient method for extracting readable documents from XML-based files, which will be used for information streams for mobile Internet access. We designed a selector for handling information streams to extract the customized information based on the user request for the small screen d ...

Keywords: adaptive user interfaces (AUIs), intermediaries and web intermediaries (WBI), personal digital assistants (PDAs)

3 Advancing interaction: ZoneZoom: map navigation for smartphones with recursive view segmentation

Daniel C. Robbins, Edward Cutrell, Raman Sarin, Eric Horvitz
May 2004 **Proceedings of the working conference on Advanced visual interfaces**
Publisher: ACM Press
Full text available: pdf(189.05 KB) Additional Information: full citation, abstract, references, index terms

ZoneZoom is an input technique that lets users traverse large information spaces on smartphones. Our technique ZoneZoom, segments a given view of an information space into nine sub-segments, each of which is mapped to a key on the number keypad of the smartphone. This segmentation can be hand-crafted by the information space author or dynamically created at run-time. ZoneZoom supports "spring-loaded" view shifting which allows users to easily "glance" at nearby areas and then quickly return to t ...

Keywords: SmartPhlow, ZoneZoom, hand-held devices, maps, mobile browsing, smartphones, spatial cognition, visual interaction, visualization, zoomable user interfaces

4 Wireless and mobile computing: Declarative user interfaces for handheld devices
Jalal Kawash
January 2004 **Proceedings of the winter international synposium on Information and communication technologies WISICT '04**
Publisher: Trinity College Dublin
Full text available: pdf(160.20 KB) Additional Information: full citation, abstract, references

This paper proposes a new approach to user interfaces for a specific category of Web services. The approach requires developers to "declare" the user interface, using implementation-independent specifications that are downloaded and "interpreted" on the fly. While this allows different Web applications to have their tailored user interfaces, these interfaces are interpreted differently on different devices, taking into consideration the capabilities and limitations of the target devices. This do ...

Keywords: XML, finite state machines, mobile virtual communities, user interfaces

5 DateLens: A fisheye calendar interface for PDAs
Benjamin B. Bederson, Aaron Clamage, Mary P. Czerwinski, George G. Robertson
March 2004 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 11 Issue 1
Publisher: ACM Press
Full text available: pdf(319.85 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Calendar applications for small handheld devices are growing in popularity. This led us to develop DateLens, a novel calendar interface for PDAs designed to support complex tasks. It uses a fisheye representation coupled with compact overviews to give the big picture in a small space. The interface also gives users control over the visible time period, as well as supporting integrated search to discover patterns and outliers. Designed with device scalability in mind, DateLens currently runs on d ...

Keywords: Fisheye distortion interfaces, PDAs, animation, calendar interfaces, graphics, information visualization

6 RSVP Browser: Web Browsing on Small Screen Devices
O. de Bruijn, R. Spence, M. Y. Chong
January 2002 **Personal and Ubiquitous Computing**, Volume 6 Issue 4
Publisher: Springer-Verlag
Full text available: pdf(171.91 KB) Additional Information: full citation, abstract, citings, index terms

In this paper, we illustrate the use of space-time trade-offs for information presentation on small screens. We propose the use of Rapid Serial Visual Presentation (RSVP) to provide a rich set of navigational information for Web browsing. The principle of RSVP

browsing is applied to the development of a Web browser for small screen devices, the RSVP browser. The results of an experiment in which Web browsing with the RSVP browser is compared with that of a typical WAP browser suggests that RSVP ...

Keywords: Mobile Internet, Mobile communication, Navigation, Rapid serial visual presentation, Small screen devices, WAP, Web browsing

7 Short talks: information retrieval and visualization: PowerView: structured access to integrated information on small screens

Staffan Björk, Lars Erik Holmquist, Peter Ljungstrand, Johan Redström
April 2000 **CHI '00 extended abstracts on Human factors in computing systems**
Publisher: ACM Press
Full text available: pdf(244.52 KB) Additional Information: full citation, abstract, references, citings

The *PowerView* application shows how non-standard graphical user interfaces, together with the introduction of links between data of different types, can ease the interaction with digital information on small mobile devices. The information visualization technique used provides a structured and efficient way of displaying information and allows navigation using only four operators. Links between data entries further improve the system by presenting related information together, even when t ...

Keywords: PDA, hand-held devices, information visualization, mobile devices, single-handed navigation, small screens

8 Organization overviews: challenges to design: The PLAY research group: entertainment and innovation in Sweden

Lars Erik Holmquist
April 2000 **CHI '00 extended abstracts on Human factors in computing systems**
Publisher: ACM Press
Full text available: pdf(228.14 KB) Additional Information: full citation, abstract, references, citings

In a short time the research group PLAY has established an unorthodox but effective work style, where a creative approach to research in information technology is combined with a strong focus on achieving high-quality results. Being a young research group (both regarding the time it has existed and the average age of its members) has presented PLAY with both challenges and opportunities. We face the challenge of building a credible basis for research in the academic community, but also think tha ...

Keywords: HCI research groups, IT design, european HCI, future HCI

9 Short papers: Designing for small display screens

Lari Kärkkäinen, Jari Laarni
October 2002 **Proceedings of the second Nordic conference on Human-computer interaction NordiCHI '02**
Publisher: ACM Press
Full text available: pdf(210.94 KB) Additional Information: full citation, abstract, references, index terms

Wireless access to the Internet via PDAs (personal digital assistants) provides Web type services in the mobile world. What we are lacking are design guidelines for such PDA services. For Web publishing, however, there are many resources to look for guidelines. The guidelines can be classified according to which aspect of the Web media they are related: software/hardware, content and its organization, or aesthetics and layout. In order to be applicable to PDA services, these guidelines have to b ...

Keywords: guidelines, personal digital assistant, world wide web

10 WEST: a Web browser for small terminals

Staffan Björk, Lars Erik Holmquist, Johan Redström, Ivan Bretan, Rolf Danielsson, Jussi Karlgren, Kristofer Franzén

November 1999 **Proceedings of the 12th annual ACM symposium on User interface software and technology**

Publisher: ACM Press

Full text available: pdf(173.07 KB) Additional Information: full citation, abstract, references, citings, index terms

We describe WEST, a WEb browser for Small Terminals, that aims to solve some of the problems associated with accessing web pages on hand-held devices. Through a novel combination of text reduction and focus+context visualization, users can access web pages from a very limited display environment, since the system will provide an overview of the contents of a web page even when it is too large to be displayed in its entirety. To make maximum use of the limited resources available on a typica ...

Keywords: WAP (wireless application protocol), flip zooming, focus+context visualization, hand-held devices, proxy systems, text reduction, web browser

11 Small devices 2: Summary thumbnails: readable overviews for small screen web browsers

Heidi Lam, Patrick Baudisch

April 2005 **Proceedings of the SIGCHI conference on Human factors in computing systems**

Publisher: ACM Press

Full text available: pdf(2.18 MB) Additional Information: full citation, abstract, references, index terms

In order to display web pages designed for desktop-sized monitors, some small-screen web browsers provide single-column or thumbnail views. Both have limitations. Single-column views affect page layouts and require users to scroll significantly more. Thumbnail views tend to reduce contained text beyond readability, so differentiating visually similar areas requires users to zoom. In this paper, we present *Summary Thumbnails*-thumbnail views enhanced with readable text fragments. Summary Th ...

Keywords: PDA, overview, semantic zoomingblutwurst, small screen device, thumbnail view, web browsing

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1 Visualizing geospatial data

Theresa Marie Rhyne, Alan MacEachern, Theresa-Marie Rhyne
August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**
Publisher: ACM Press
Full text available: pdf(13.99 MB) Additional Information: full citation, abstract

This course reviews concepts and highlights new directions in GeoVisualization. We review four levels of integrating geospatial data and geographic information systems (GIS) with scientific and information visualization (VIS) methods. These include:• Rudimentary: minimal data sharing between the GIS and Vis systems• Operational: consistency of geospatial data• Functional: transparent communication between the GIS and Vis systems• Merged: one comprehensive toolkit environmentW ...

2 Columns: Risks to the public in computers and related systems

Peter G. Neumann
January 2001 **ACM SIGSOFT Software Engineering Notes**, Volume 26 Issue 1
Publisher: ACM Press
Full text available: pdf(3.24 MB) Additional Information: full citation

3 The evolution of Coda

M. Satyanarayanan
May 2002 **ACM Transactions on Computer Systems (TOCS)**, Volume 20 Issue 2
Publisher: ACM Press
Full text available: pdf(441.35 KB) Additional Information: full citation, abstract, references, citings, index terms

Failure-resilient, scalable, and secure read-write access to shared information by mobile and static users over wireless and wired networks is a fundamental computing challenge. In this article, we describe how the Coda file system has evolved to meet this challenge through the development of mechanisms for server replication, disconnected operation, adaptive use of weak connectivity, isolation-only transactions, translucent caching, and opportunistic exploitation of hardware surrogates. For eac ...

Keywords: Adaptation, Linux, UNIX, Windows, caching, conflict resolution, continuous data access, data staging, disaster recovery, disconnected operation, failure, high availability, hoarding, intermittent networks, isolation-only transactions, low-bandwidth networks, mobile computing, optimistic replica control, server replication, translucent cache management, weakly connected operation

4 User Interfaces for Applications on a Wrist Watch

M. T. Raghunath, Chandra Narayanaswami

January 2002 **Personal and Ubiquitous Computing**, Volume 6 Issue 1

Publisher: Springer-Verlag

Full text available: pdf(356.91 KB) Additional Information: full citation, abstract, citings, index terms

Advances in technology have made it possible to package a reasonably powerful processor and memory subsystem coupled with an ultra high-resolution display and wireless communication into a wrist watch. This introduces a set of challenges in the nature of input devices, navigation, applications, and other areas. This paper describes a wearable computing platform in a wrist watch form-factor we have developed. We built two versions: one with a low resolution liquid crystal display; and another wit ...

5 Optimizing encoding: Using link analysis to improve layout on mobile devices

Xinyi Yin, Wee Sun Lee

May 2004 **Proceedings of the 13th international conference on World Wide Web**

Publisher: ACM Press

Full text available: pdf(377.81 KB) Additional Information: full citation, abstract, references, index terms

Delivering web pages to mobile phones or personal digital assistants has become possible with the latest wireless technology. However, mobile devices have very small screen sizes and memory capacities. Converting web pages for delivery to a mobile device is an exciting new problem. In this paper, we propose to use a ranking algorithm similar to Google's PageRank algorithm to rank the content objects within a web page. This allows the extraction of only important parts of web pages for delivery t ...

Keywords: html, link analysis, pda (personal digital assistant), www (world wide web)

6 Mobility support and location awareness: Developing spatially-aware content management systems for dynamic, location-specific information in mobile environments

Harsha Tummala, Joel Jones

September 2005 **Proceedings of the 3rd ACM international workshop on Wireless mobile applications and services on WLAN hotspots WMASH '05**

Publisher: ACM Press

Full text available: pdf(1.06 MB) Additional Information: full citation, abstract, references, index terms

Current location-aware information systems lack an effective method of maintaining and updating dynamic, location-specific content. We have developed a design for representing location-specific content that balances flexibility and comprehensibility. We have developed a web-based content management system that implements this design. The system provides an easy-to-use interface to tie any form of media-such as text, pictures, audio, or video-to a location.This work is directly applicable to vari ...

Keywords: content management, context-aware services, location-aware applications, mobile computing, user-driven information systems

7 Risks to the public: Risks to the public in computers and related systems

Peter G. Neumann

March 2003 **ACM SIGSOFT Software Engineering Notes**, Volume 28 Issue 2

Publisher: ACM Press

Full text available: pdf(221.43 KB) Additional Information: full citation

8

Bibliography of recent publications on computer communication
Martha Steenstrup
January 1998 **ACM SIGCOMM Computer Communication Review**, Volume 28 Issue 1
Publisher: ACM Press
Full text available: pdf(2.02 MB) Additional Information: full citation, abstract, index terms

The quantitative results presented in our SIGCOMM '97 paper [1] include numerous minor errors. These errors were caused by programming bugs that led to faulty analyses and simulations, and by inaccurate transcriptions during the preparation of the paper. Here we present corrected figures and tables, as well as corrections to values that appeared in the text of the original paper. The effect of correcting the errors is to reduce the differences between the results based on the proxy trace and tho ...

9 Late breaking results: posters: Why use memo for all?: restructuring mobile applications to support informal note taking
Liwei Dai, Wayne G. Lutters, Carlie Bower
April 2005 **CHI '05 extended abstracts on Human factors in computing systems**
Publisher: ACM Press
Full text available: pdf(134.72 KB) Additional Information: full citation, abstract, references, index terms

Informal note taking is an essential activity in Personal Information Management (PIM). Most mobile devices support this via a suite of applications, employing both highly structured (e.g., calendar, task list, contacts) and loosely structured (e.g., memos) data formats. Contextual interviews and artifact inspections with expert PIM-on-PDA (Personal Digital Assistant) users explored task-to-application mapping. Structured tools were routinely avoided for informal note taking in favor of unstruct ...

Keywords: field study, mobile computing, note taking, user study

10 Using technology to transform communities of practice into knowledge-building communities
Christopher M. Hoadley, Peter G. Kilner
January 2005 **ACM SIGGROUP Bulletin**, Volume 25 Issue 1
Publisher: ACM Press
Full text available: pdf(255.44 KB) Additional Information: full citation, abstract, references, index terms

Knowledge and learning exist as byproducts of social processes such as those that take place in communities of practice. We describe two frameworks for understanding and building online knowledge-building communities, or online communities of practice that enhance collective knowledge. First, the C4P framework is described as a way of understanding how knowledge is created and disseminated by participants in a community of practice. Second, we discuss ways in which technology provides added valu ...

Keywords: CILTKN, CompanyCommand, community of practice, context, conversation, design, distributed cognition, knowledge building, learning, online community, social networks

11 Editorial: a Two-Way Cyberstreet
Jay Blickstein
November 1998 **netWorker**, Volume 2 Issue 5
Publisher: ACM Press
Full text available: pdf(162.17 KB) Additional Information: full citation, index terms

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